Amendment to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1 and 2 (Previously cancelled)

Claim 3 (Currently amended): A surface-modified, pyrogenically produced oxides doped by aerosol, characterized in that the oxides are selected from the group consisting of SiO₂, Al₂O₃, TiO₂, B₂O₃, ZrO₂, In₂O₃, ZnO, Fe₂O₃, Nb₂O₅, V₂O₅, WO₃, SnO₂ and GeO₂, wherein the surface is modified to impart to the surface a sufficient hydrophobic character which permits rapid dissolution in organic systems at high concentrations with one or several compounds selected from the following groups:

- a) Organosilanes having either formula $(RO)_3Si(C_nH_{2n+1})$ or $(RO)_3Si(C_nH_{2n-1})$, wherein R = alkyl, and n = 1 20;
- b) Organosilanes having either formula R'_x (RO)_ySi(C_nH_{2n+1}) or (RO)₃Si(C_nH_{2n+1}), wherein

$$R = alkyl,$$

$$R' = alkyl,$$

$$n = 1 - 20$$
,

$$x+y=3$$
,
 $x = 1$, or 2, and
 $y = 1$, or 2;

c) Halogen organosilanes having either formula X_3 Si(C_nH_{2n+1}) or X_3 Si(C_nH_{2n-1}), wherein

$$X = Cl$$
, or Br, and $n = 1 - 20$;

d) Halogen organosilanes having either formula X₂ (R') Si(C_nH_{2n+1}) or

$$X_2$$
 (R') $Si(C_nH_{2n-1})$, wherein

$$X = Cl$$
, or Br

R' = alkyl and or cycloalkyl, and

$$n = 1 - 20;$$

e) Halogen organosilanes having formula $X(R')_2 Si(C_nH_{2n+1})$ or

$$X(R')_2 Si(C_nH_{2n-1})$$
, wherein

$$X = Cl$$
, or Br;

R' = alkyl or and cycloalkyl, and

$$n = 1 - 20;$$

f) Organosilanes having the formula (RO)₃Si(CH₂)_m-R'

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R = alkyl,
          m = 0, or 1-20, and
          R' = methyl-, aryl-, -C_6H_5, substituted phenyl groups,
                    -C<sub>4</sub>F<sub>9</sub>, OCF<sub>2</sub>-CHF-CF<sub>3</sub>, -C<sub>6</sub>F<sub>13</sub>, -O-CF<sub>2</sub>-CHF<sub>2</sub>,
          -NH_2, =N_3, -SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,
                    -N-(CH_2-CH_2-CH_2NH_2)_2,
          -OOC(CH_3)C = CH_2
                    -OCH_2-CH(O)CH_2,
          -NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,
                    -NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,
                    -SH, or
          -NR'R''R''', wherein R' = alkyl, or aryl; R'' = H, alkyl, aryl; and R''' = H, alkyl, aryl,
benzyl, or C_2H_4N(R'''')_2, wherein R''''=H, or alkyl;
          g) Organosilanes having the formula (R'')<sub>x</sub> (RO)<sub>y</sub> Si(CH<sub>2</sub>)<sub>m</sub>-R', wherein
                    = alkyl, or cycloalkyl,
         R"
          x+y = 2,
          x = 1, or 2,
          y = 1, or 2,
          m = 0, or 1 to 20, and
          R' = methyl-, aryl, -C_6H_5, substituted phenyl groups,
                    -C<sub>4</sub>F<sub>9</sub>, -OCF<sub>2</sub>-CHF-CF<sub>3</sub>, -C<sub>6</sub>F<sub>13</sub>, -O-CF<sub>2</sub>-CHF<sub>2</sub>,
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-NH<sub>2</sub>, -N<sub>3</sub>, SCN, -CH= CH<sub>2</sub>, -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>,
-N-(CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>)<sub>2</sub>,
-OOC (CH<sub>3</sub>)C = CH<sub>2</sub>,
-OCH<sub>2</sub>-CH(O) CH<sub>2</sub>,
-NH-CO-N-CO-(CH<sub>2</sub>)<sub>5</sub>,
-NH-COO-CH<sub>3</sub>, -NH-COO-CH<sub>2</sub>-CH<sub>3</sub>, -NH-(CH<sub>2</sub>)<sub>3</sub>Si(OR)<sub>3</sub>,
or -SH , or
-NR'R''R''', wherein R' = alkyl<sub>7</sub> or aryl; R'' = H,
alkyl, or aryl; and R''' = H, alkyl, aryl, benzyl, or
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h) Halogen organosilanes having the formula X₃Si (CH₂)_m-R', wherein

$$X = Cl$$
, or Br,

$$m = 0, 1 - 20,$$

R' = methyl-, aryl, $-C_6H_5$, substituted phenyl groups

 $C_2H_4N(R'''')_2$, wherein R''''=H, or alkyl;

$$-N-(CH_2-CH_2-NH_2)_2$$
,

$$-OOC (CH_3)C = CH_2$$
,

-SH;

i) Halogen organosilanes having the formula (R)X₂Si(CH₂)_m-R', wherein

$$X = Cl$$
, or Br ,

R = alkyl such as methyl-, ethyl-, or propyl-,

$$m = 0$$
, or $1 - 20$, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

-NH₂, -N₃, SCN, -CH=CH₂, -NH-CH₂-CH₂-NH₂,

$$-N-(CH_2-CH_2-NH_2)_2$$
,

-OOC (
$$CH_3$$
) $C = CH_2$,

-NH-
$$(CH_2)_3Si(OR)_3$$
, or

-SH;

(j) Halogen organosilanes having the formula (R)₂X Si(CH₂)_m-R', wherein

$$X = Cl$$
, or Br,

$$R = alkyl,$$

$$m = 0$$
, or $1 - 20$, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

-C₄F₉, -OCF₂-CHF-CF₃, -C₆F₁₃, -O-CF₂-CHF₂,

-NH₂, -N₃, SCN, -CH=CH₂, -NH-CH₂-CH₂-NH₂,

 $-N-(CH_2-CH_2-NH_2)_2$,

-OOC (CH_3) $C = CH_2$,

-OCH₂-CH(O) CH₂,

-NH-CO-N-CO- $(CH_2)_5$,

-NH-COO-CH₃, -NH-COO-CH₂-CH₃, -NH-(CH₂)₃Si(OR)₃, or

-SH;

(k) Silazanes having the formula

wherein R = alkyl, and

R' = alkyl, or vinyl; or

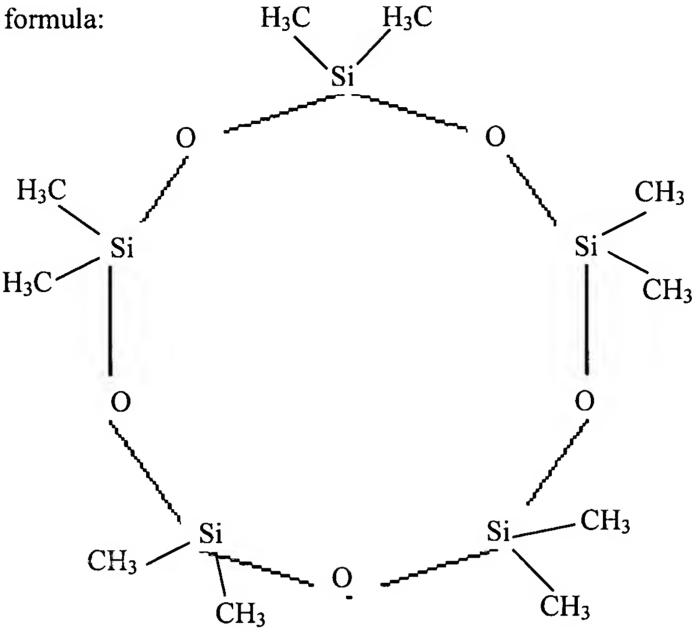
(1) Cyclic polysiloxanes D 3, D 4 or D 5,

where 1) D3 has the formula:

2) D4 has the formula:

$$CH_3$$
 CH_3 CH_3 CH_3 CH_3 CH_3 CH_3 CH_3 CH_3 CH_3

and 3) D5 has the formula:



m) Polysiloxanes or silicone oils having any one of the formula

,
$$Si(CH_3)_2OH$$
, $Si(CH_3)_2$ (OCH₃), or

$$Si(CH_3)_2$$
 (C_nH_{2n+1}), wherein n=1-20,

wherein,

$$R = alkyl, aryl, (CH2)n-NH2, or H,$$

R' = alkyl, aryl,
$$(CH_2)_n$$
-NH₂, or H,

R'' = alkyl, aryl, $(CH_2)_n$ -NH₂, or H,

R'''= alkyl, aryl, $(CH_2)_n$ -NH₂, or H.

Claim 4 (Previously presented): A method of producing the surface-modified oxides in accordance with claim 3, comprising placing pyrogenically produced oxides doped by aerosol in a suitable mixing container, spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 5 (Previously presented): In a reinforcing filler composition wherein the improvement comprises the surface-modified oxides according to claim 3 as reinforcing filler.

Claim 6 (Original) The method of claim 4 wherein the spraying step includes spraying with water and/or acid prior to the spraying with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 7 (Original) The method of claim 4 further comprising re-mixing at 15 to 30 minutes and tempering at a temperature of 100 to 400 °C for a period of 1 to 6 hours.

Claim 8 (Previously presented) The surface-modified, pyrogenically produced oxides according to claim 3 wherein the cyclic polysiloxanes is D 4.

Claim 9 (Cancelled)